

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claims 1-8 (cancelled).

Claim 9 (original): A device for transport of fluids comprising:
an inlet port; a waste chamber; and a flow channel for transport of fluid through the device;
the flow channel comprising a triangular structure, comprising steps or terraces of decreasing
depth as the triangular structure expands, wherein the depth are of two or more different depths,
thus increasing capillary force and allowing for homogeneous spreading or re-collection of a
fluid stream.

Claim 10 (original): The device of claim 9 wherein edges of the steps or terraces comprise
notched structured zones.

Claims 11-17 (cancelled).

Claim 18 (currently amended): A device for transport of fluids comprising a combination of
two or more features as recited in any one of claims ~~1 through 17~~ 9 or 10.

Claim 19 (cancelled).

Claim 20 (currently amended): A device of any one of claims ~~1 through 19~~ 9 or 10, wherein the
device further comprises an analysis area.

Claims 21-42 (cancelled).

Claim 43 (new): A device for the analysis of fluids and other applications, comprising:

a filling section, an analysis section, and a system of channels,
wherein the sections are microstructured and comprise at least one fluidic structure for the controlled transport of fluid through the microstructured sections and system of channels, and
wherein the channels comprise a triangular structure having two or more steps or terraces of decreasing depth as the triangular structure expands, thus increasing capillary force and allowing for homogenous spreading or re-collection of the fluid stream.

Claim 44 (new): The device of claim 43, wherein a first single flow channel provides a bifurcating flow path into two separate flow channels,

wherein the two separate flow channels and the first single flow channel form substantially a Y-shape and the channels further bifurcate into a symmetrical delta,

wherein the cross-sectional area of the first single flow channel and the combined cross-sectional areas of the separate flow channels are substantially identical, and

wherein edges of the steps or terraces comprise notched structured zones.

Claim 45 (new): A device for the analysis of fluids and other applications, comprising:

a filling section, an analysis section, and a system of channels,

wherein the sections are microstructured and comprise at least one fluidic structure for the controlled transport of fluid through the microstructured sections and system of channels, and

comprising a combination of two or more features as recited in any one of claims 43 or

44.